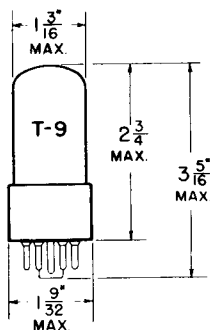


## TUNG-SOL

## DOUBLE TRIODE



GLASS BULB

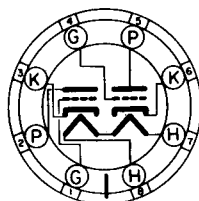
COATED UNIPOTENTIAL CATHODES

HEATER

6.3 VOLTS 1.5 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM-VIEW

SHORT INTERMEDIATE  
SHELL 8 PIN OCTAL

880

THE 6BX7GT IS A HIGH PERVEANCE DOUBLE TRIODE DESIGNED FOR USE AS A VERTICAL DEFLECTION AMPLIFIER AND OSCILLATOR IN TELEVISION RECEIVERS.

## DIRECT INTERELECTRODE CAPACITANCES — APPROX.

|                          | WITHOUT<br>SHIELD | WITH<br>SHIELD <sup>A</sup> |               |
|--------------------------|-------------------|-----------------------------|---------------|
| <b>SECTION I</b>         |                   |                             |               |
| GRID TO PLATE: (G TO P)  | 4.2               | 4.2                         | $\mu\text{f}$ |
| INPUT: G TO (H+K)        | 4.4               | 5                           | $\mu\text{f}$ |
| OUTPUT: P TO (H+K)       | 1.1               | 3.4                         | $\mu\text{f}$ |
| <b>SECTION II</b>        |                   |                             |               |
| GRID TO PLATE: (G TO P)  | 4                 | 4                           | $\mu\text{f}$ |
| INPUT: G TO (H+K)        | 4.8               | 5                           | $\mu\text{f}$ |
| OUTPUT: P TO (H+K)       | 1.2               | 3.2                         | $\mu\text{f}$ |
| GRID TO GRID: (G TO G)   | 0.11              | 0.1                         | $\mu\text{f}$ |
| PLATE TO PLATE: (P TO P) | 1.5               | 1.2                         | $\mu\text{f}$ |

<sup>A</sup>EXTERNAL SHIELD #308 CONNECTED TO CATHODE OF SECTION UNDER TEST.

CONTINUED ON FOLLOWING PAGE

→INDICATES A CHANGE OR ADDITION.

## TUNG-SOL

CONTINUED FROM PRECEDING PAGE

**RATINGS ←**  
 INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM  
 VERTICAL DEFLECTION AMPLIFIER AND OSCILLATOR<sup>BC</sup>

|                                                                 | OSCILLATOR | AMPLIFIER |         |
|-----------------------------------------------------------------|------------|-----------|---------|
| HEATER VOLTAGE                                                  |            | 6.3       | VOLTS   |
| MAXIMUM HEATER-CATHODE VOLTAGE:                                 |            |           |         |
| HEATER NEGATIVE WITH RESPECT TO CATHODE:                        |            |           |         |
| DC                                                              |            | 200       | VOLTS   |
| TOTAL DC AND PEAK                                               |            | 200       | VOLTS   |
| HEATER POSITIVE WITH RESPECT TO CATHODE:                        |            |           |         |
| DC                                                              |            | 100       | VOLTS   |
| TOTAL DC AND PEAK                                               |            | 200       | VOLTS   |
| MAXIMUM DC PLATE VOLTAGE                                        | 500        | 500       | VOLTS   |
| MAXIMUM PEAK POSITIVE PULSE PLATE VOLTAGE<br>(ABSOLUTE MAXIMUM) | ---        | 2000      | VOLTS   |
| MAXIMUM PEAK NEGATIVE PULSE GRID VOLTAGE                        | 400        | 250       | VOLTS   |
| MAXIMUM DC POSITIVE GRID VOLTAGE                                | 0          | 0         | VDC     |
| MAXIMUM PLATE DISSIPATION <sup>D</sup>                          | 10         | 10        | WATTS   |
| MAXIMUM TOTAL PLATE DISSIPATION                                 |            | 12        | WATTS   |
| MAXIMUM AVERAGE CATHODE CURRENT                                 | 60         | 60        | MA.     |
| MAXIMUM PEAK CATHODE CURRENT                                    | 180        | 180       | MA.     |
| MAXIMUM GRID CIRCUIT RESISTANCE (SELF BIAS)                     | 2.2        | 2.2       | MEGOHMS |

<sup>B</sup> FOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE IN TELEVISION BROADCASTING STATIONS, FEDERAL COMMUNICATIONS COMMISSION". THE DURATION OF THE VOLTAGE PULSE IS NOT TO EXCEED 15% OF ONE SCANNING CYCLE.

<sup>C</sup> WHEN ONE SECTION IS OPERATED AS AN OSCILLATOR IT IS RECOMMENDED THAT SECTION #1 (PINS 4, 5 AND 6) BE USED.

<sup>D</sup> IN STAGES OPERATING WITH GRID LEAK BIAS, AN ADEQUATE BIAS RESISTOR OR OTHER SUITABLE MEANS IS REQUIRED TO PROTECT THE TUBE IN THE ABSENCE OF EXCITATION.

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

|                                   |     |      |       |
|-----------------------------------|-----|------|-------|
| HEATER VOLTAGE                    |     | 6.3  | VOLTS |
| HEATER CURRENT                    |     | 1.5  | AMP.  |
| PLATE VOLTAGE                     | 100 | 250  | VOLTS |
| GRID #1 VOLTAGE                   | 0   | 0    | VOLTS |
| CATHODE RESISTOR                  | 0   | 390  | OHMS  |
| PLATE CURRENT                     | 80  | 42   | MA.   |
| TRANSCONDUCTANCE                  | --- | 7600 | μMHOS |
| AMPLIFICATION FACTOR              | --- | 10   |       |
| PLATE RESISTANCE (APPROX.)        | --- | 1300 | OHMS  |
| GRID VOLTAGE FOR $I_b = 50 \mu A$ | --- | -40  | VOLTS |

→ INDICATES A CHANGE.